INTERNATIONAL SEARCH REPORT

International application No.

		·	Dom / To	
A. CLASSIFIC	CATION OF SUBJECT MATTER		PCT/JP2	2004/018829
Int.Cl	7 F04B39/10			
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According to In	ternational Patent Classification (IPC) or to both nation	al classification and IPC		•
B. FIELDS SE				
Minimum docur	mentation searched (classification system followed by c	lassification symbols)		
Int.Ci	7 F04B39/00-39/16, F16K15/00-1	5/20		
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Documentation:	searched other than minimum documentation to the ext Shinan Koho 1922–1996 To			
		oroku Jitsuyo Sh itsuyo Shinan To		1994 - 2005 1996-2005
Electronic data b	pase consulted during the international search (name of	data base and, where pr	acticable, search to	erms used)
')				
				
C. DOCUMEN	VTS CONSIDERED TO BE RELEVANT			·
Category*	Citation of document, with indication, where ap	opropriate, of the releva-	nt passages	Relevant to claim No.
X	Microfilm of the specification			1
Y	annexed to the request of Jap			2,3
	Model Application No. 51501/7	rage (rgrd-ober	1	
	(Calsonic Corp.),			
	01 November, 1989 (01.11.89),	,		
	Full text; Fig. 1			
	(Family: none)			
Y	Microfilm of the specification	on and drawing	ıs	2
annexed to the request of Japanese Utility			_	
	Model Application No. 59872/1 No. 172970/1982)	1981 (Laid-oper)	
	(Hitachi, Ltd.),			
	30 October, 1982 (30.10.82),			
	Full text; Figs. 2 to 4			
	(Family: none)		j	
× Further do	cuments are listed in the continuation of Box C.		<u>-</u>	
	gories of cited documents:	See patent fami	<u> </u>	
"A" document de	efining the general state of the art which is not considered	date and not in con	flict with the applica	mational filing date or priority tion but cited to understand
to be of parti	cular relevance	the principle or the	ory underlying the in	vention
filing date	ation or patent but published on or after the international	"X" document of partic considered novel	ular relevance; the cl or cannot be conside	aimed invention cannot be ered to involve an inventive
"L" document w	hich may throw doubts on priority claim(s) or which is blish the publication date of another citation or other	step when the docu	ment is taken alone	
special reaso	n (as specified)	considered to inv	olve an inventive si	aimed invention cannot be tep when the document is
	ferring to an oral disclosure, use, exhibition or other means	combined with one	or more other such of person skilled in the	locuments, such combination
priority date	blished prior to the international filing date but later than the claimed		of the same patent fa	
Date of the actual completion of the international search 15 March, 2005 (15.03.05)		Date of mailing of the		
15 Marc	, 2005 (15.05.05)	10 May, 2	005 (10.05	.05)
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	g address of the ISA/ se Patent Office	Authorized officer		
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018829

Category*	Citation of document, with indication, where appropriate, of the relevant passage	Relevant to claim N
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 84047/1980 (Laid-open No. 8958/1982) (Tokyo Shibaura Electric Co., Ltd.), 18 January, 1982 (18.01.82), Full text; Figs. 3 to 5 (Family: none)	2,3
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 114842/1988(Laid-open No. 34776/1990) (Daikin Industries, Ltd.), 06 March, 1990 (06.03.90), Full text (Family: none)	3
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 119655/1978(Laid-open No. 36963/1980) (Tokyo Shibaura Electric Co., Ltd.), 10 March, 1980 (10.03.80), Full text (Family: none)	3
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 146342/1979(Laid-open No. 65269/1981) (Hitachi, Ltd.), 01 June, 1981 (01.06.81), Full text (Family: none)	1-3
A .	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 171542/1985 (Laid-open No. 79986/1987) (Diesel Kiki Co., Ltd.), 22 May, 1987 (22.05.87), Full text (Family: none)	1-3